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PRELIMINARY REPORT
INDUSTRY SERIES

1987
Census of Manufactures

MC87-I-22A(P)
Issued July 1989

WEAVING AND FLOOR COVERING MILLS

Industries 2211, 2221, 2231, 2241, and 2273

INTRODUCTION

This report presents preliminary statistics from the 1987 Census of Manufactures for those establishments classified in the industries listed above. These data will be superseded by a more comprehensive final paperbound report. The method of data collection and use of administrative data are discussed in detail in the appendix.

All dollar figures included in this report are at prices current for the year specified and, therefore, unadjusted for changes in price levels. Consequently, when making comparisons to prior years, users should take into consideration the inflation that has occurred.

The definitions of these industries are the same as those used in the 1987 Standard Industrial Classification (SIC) Manual.[1]

INDUSTRY 2211, BROADWOVEN FABRIC MILLS, COTTON

In the 1987 Census of Manufactures, Industry 2211, Broadwoven Fabric Mills, Cotton, had employment of 72.5 thousand. The employment figure was 6 percent below the 76.9 thousand reported in 1982. Compared with 1986, employment in 1987 increased 24 percent. The 1986 data are based on the Bureau's annual survey of manufactures (ASM), which is a sample survey conducted each year between censuses.

The total value of shipments for establishments classified in this industry was $5.5 billion. The product primary to this industry appear in table 2 and aggregated to $5.4 billion in 1987.

The cost of materials and services used by establishments in this industry amounted to $2.9 billion in 1987. Data on specific materials consumed appear in table 3.

INDUSTRY 2221, BROADWOVEN FABRIC MILLS, MANMADE FIBER AND SILK

In the 1987 Census of Manufactures, Industry 2221, Broadwoven Fabric Mills, Manmade Fiber and Silk, had employment of 89.1 thousand. The employment figure was 37 percent below the 140.8 thousand reported in 1982. Compared with 1986, employment in 1987 decreased 19 percent. The 1986 data are based on the Bureau's annual survey of manufactures (ASM), which is a sample survey conducted each year between censuses.

The total value of shipments for establishments classified in this industry was $8.1 billion. The products primary to this industry appear in table 2 and aggregated to $7.8 billion in 1987.

The cost of materials and services used by establishments in this industry amounted to $4.5 billion in 1987. Data on specific materials consumed appear in table 3.

INDUSTRY 2231, BROADWOVEN FABRIC MILLS, WOOL

In the 1987 Census of Manufactures, Industry 2231, Broadwoven Fabric Mills, Wool, had employment of 15.0 thousand. The employment figure was 15 percent above the 13.1 thousand reported in 1982. Compared with 1986, employment in 1987 increased 22 percent. The 1986 data are based on the Bureau's annual survey of manufactures (ASM), which is a sample survey conducted each year between censuses.

[1] **Standard Industrial Classification Manual: 1987.** For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

Address inquiries to Bureau of the Census, Industry Division, Washington, DC 20233, or call **Gretchen Dickson** (301) 763-2510.

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The total value of shipments for establishments classified in this industry was $1.1 billion.

In 1987, establishments in this industry accounted for 86 percent of products considered primary to the industry regardless of the industry in which they were produced (coverage ratio). In 1982, the coverage ratio was 75 percent. The products primary to this industry appear in table 2 and aggregated to $1.1 billion in 1987.

The cost of materials and services used by establishments in this industry amounted to $593.5 million in 1987. Data on specific materials consumed appear in table 3.

INDUSTRY 2241, NARROW FABRIC MILLS

In the 1987 Census of Manufactures, Industry 2241, Narrow Fabric Mills, had employment of 19.0 thousand. The employment figure was 9 percent above the 17.5 thousand reported in 1982. Compared with 1986, employment in 1987 increased 10 percent. The 1986 data are based on the Bureau's annual survey of manufactures (ASM), which is a sample survey conducted each year between censuses.

The total value of shipments for establishments classified in this industry was $1.2 billion.

In 1987, establishments in this industry accounted for 94 percent of products considered primary to the industry regardless of the industry in which they were produced (coverage ratio). In 1982, the coverage ratio was 97 percent. The products primary to this industry appear in table 2 and aggregated to $1.2 billion in 1987.

The cost of materials and services used by establishments in this industry amounted to $572.5 million in 1987. Data on specific materials consumed appear in table 3.

INDUSTRY 2273, CARPETS AND RUGS

In the 1987 Census of Manufactures, Industry 2273, Carpet and Rugs, had employment of 53.2 thousand. The employment figure was 27 percent above the 41.8 thousand reported in 1982. Compared with 1986, employment in 1987 increased 7 percent. The 1986 data are based on the Bureau's annual survey of manufactures (ASM), which is a sample survey conducted each year between censuses.

The total value of shipments for establishments classified in this industry was $10.0 billion.

In 1987, establishments in this industry accounted for 99 percent of products considered primary to the industry regardless of the industry in which they were produced (coverage ratio). The products primary to this industry appear in table 2 and aggregated to $9.5 billion in 1987.

The cost of materials and services used by establishments in this industry amounted to $6.9 billion in 1987. Data on specific materials consumed appear in table 3.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in the tables in this publication:

-	Represents zero.
(D)	Withheld to avoid disclosing data for individual companies; data are included in higher level totals.
(NA)	Not available.
(NC)	Not comparable.
(S)	Withheld because estimate did not meet publication standards on the basis of either the response rate or a consistency review.
(X)	Not applicable.
(Z)	Less than half the unit shown.
do	Ditto.
n.e.c.	Not elsewhere classified.
n.s.k.	Not specified by kind.
pt.	Part.
r	Revised.
SIC	Standard Industrial Classification.

Other abbreviations, such as lb, gal, yd, doz, bbl, and s tons, are used in the customary sense.

CONTACTS FOR DATA USERS

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Census/ASM		
Durables	Kenneth Hansen	(301) 763-7304
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Durables	Malcolm Bernhardt	(301) 763-2518
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Import/Export Publications	Foreign Trade Division	(301) 763-5140
Industry Analysis and Forecasts	International Trade Administration	(202) 377-4356

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Table 1. Historical Statistics for the Industry: 1987 and Earlier Years

[Excludes data for auxiliaries. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix.]

Year[1]	Companies[2] (no.)	All establishments[3] Total (no.)	All establishments[3] With 20 employees or more (no.)	All employees Number (1,000)	All employees Payroll (million dollars)	Production workers Number (1,000)	Production workers Hours (millions)	Production workers Wages (million dollars)	Value added by manufacture[4] (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories[5] (million dollars)	Ratios Specialization (per cent)	Ratios Coverage (per cent)
INDUSTRY 2211, BROADWOVEN FABRIC MILLS, COTTON															
1987 Census	241	256	151	72.5	1 262.7	65.0	138.3	1 074.5	2 607.7	2 922.6	5 516.1	199.0	766.4	86	(NA)
1986 ASM	(NA)	(NA)	(NA)	58.3	932.8	52.5	104.4	786.1	2 115.6	1 980.3	4 155.1	113.9	606.4	(NA)	(NA)
1985 ASM	(NA)	(NA)	(NA)	62.1	924.2	56.2	106.5	791.5	1 767.4	2 177.0	4 025.2	191.6	704.9	(NA)	(NA)
1984 ASM	(NA)	(NA)	(NA)	69.8	999.6	63.0	118.3	844.1	1 928.5	2 533.0	4 347.2	175.7	819.1	(NA)	(NA)
1983 ASM	(NA)	(NA)	(NA)	71.6	1 020.9	66.2	128.6	882.9	1 870.6	2 540.1	4 391.6	212.8	709.6	(NA)	(NA)
1982 Census	209	269	143	78.9	964.8	69.2	127.5	815.2	1 637.5	2 293.7	3 972.0	297.9	699.2	84	94
1981 ASM	(NA)	(NA)	(NA)	100.4	1 220.4	90.5	177.8	1 042.5	2 248.8	3 059.0	5 284.8	289.3	797.5	(NA)	(NA)
1980 ASM	(NA)	(NA)	(NA)	107.7	1 249.6	97.2	197.1	1 075.8	2 360.5	2 989.1	5 245.3	217.5	824.0	(NA)	(NA)
1979 ASM	(NA)	(NA)	(NA)	110.5	1 191.5	100.6	206.5	1 034.5	2 213.3	2 647.6	4 864.8	185.3	689.6	(NA)	(NA)
1978 ASM	(NA)	(NA)	(NA)	109.5	1 065.3	100.0	199.0	918.8	1 851.5	2 305.4	4 153.0	167.4	659.0	(NA)	(NA)
1977 Census	211	274	139	117.2	1 048.8	107.2	214.3	902.0	1 944.5	2 579.8	4 431.2	187.2	657.8	84	92
1976 ASM	(NA)	(NA)	(NA)	109.8	917.0	100.5	204.1	785.8	1 686.5	2 074.8	3 717.9	124.3	521.0	(NA)	(NA)
1975 ASM	(NA)	(NA)	(NA)	106.8	768.9	97.8	184.6	652.8	1 336.9	1 588.2	2 956.5	133.4	460.2	(NA)	(NA)
1974 ASM	(NA)	(NA)	(NA)	120.9	837.1	111.6	215.0	718.3	1 551.8	1 839.0	3 280.5	137.0	524.7	(NA)	(NA)
1973 ASM	(NA)	(NA)	(NA)	119.0	779.1	110.3	227.7	683.4	1 321.6	1 314.6	2 742.3	93.9	391.2	(NA)	(NA)
1972 Census	196	307	227	121.3	745.2	112.1	235.8	654.9	1 256.3	1 389.7	2 660.6	72.7	391.0	84	90
INDUSTRY 2221, BROADWOVEN FABRIC MILLS, MANMADE FIBER AND SILK															
1987 Census	213	435	274	89.1	1 610.4	77.8	164.5	1 283.1	3 646.2	4 541.9	8 136.6	315.9	975.9	88	(NA)
1986 ASM	(NA)	(NA)	(NA)	109.7	1 881.7	95.5	196.1	1 497.0	3 776.8	4 847.1	8 665.5	350.6	1 091.3	(NA)	(NA)
1985 ASM	(NA)	(NA)	(NA)	113.5	1 832.3	99.9	197.2	1 454.2	3 542.1	4 791.4	8 401.9	484.4	1 127.5	(NA)	(NA)
1984 ASM	(NA)	(NA)	(NA)	130.8	2 005.3	115.0	229.4	1 614.2	4 011.5	5 296.2	9 273.9	471.8	1 220.9	(NA)	(NA)
1983 ASM	(NA)	(NA)	(NA)	137.2	2 023.6	120.4	243.0	1 641.1	3 940.6	5 391.3	9 285.0	380.4	1 248.0	(NA)	(NA)
1982 Census	242	520	360	140.8	1 815.2	123.0	230.5	1 446.6	3 488.6	4 647.1	8 191.2	385.3	1 142.1	89	92
1981 ASM	(NA)	(NA)	(NA)	141.5	1 877.6	125.0	252.5	1 522.9	3 607.6	5 149.7	8 725.7	408.7	1 151.6	(NA)	(NA)
1980 ASM	(NA)	(NA)	(NA)	142.7	1 790.1	125.7	254.3	1 414.5	3 574.9	4 383.2	7 851.0	372.2	1 114.2	(NA)	(NA)
1979 ASM	(NA)	(NA)	(NA)	145.1	1 630.2	128.9	265.3	1 340.7	3 310.2	4 006.6	7 291.5	264.6	937.7	(NA)	(NA)
1978 ASM	(NA)	(NA)	(NA)	143.4	1 492.0	127.6	264.2	1 225.7	2 929.0	3 613.6	6 523.3	257.2	869.3	(NA)	(NA)
1977 Census	267	449	351	151.2	1 428.7	134.6	275.4	1 168.7	2 790.9	3 563.5	6 325.9	260.2	871.0	86	93
1976 ASM[7]	(NA)	(NA)	(NA)	161.1	1 397.8	144.0	296.0	1 161.0	2 600.0	3 345.9	5 869.1	245.6	845.5	(NA)	(NA)
1975 ASM	(NA)	(NA)	(NA)	151.7	1 149.7	135.2	261.4	935.5	1 964.8	2 670.2	4 632.0	192.2	766.5	(NA)	(NA)
1974 ASM	(NA)	(NA)	(NA)	157.8	1 165.3	141.2	286.8	964.7	2 192.3	2 668.6	4 776.8	203.2	727.7	(NA)	(NA)
1973 ASM	(NA)	(NA)	(NA)	161.4	1 129.2	145.4	310.6	948.2	2 030.0	2 325.6	4 368.7	188.5	641.4	(NA)	(NA)
1972 Census	256	412	341	149.7	979.4	134.9	292.7	825.2	1 831.6	2 062.6	3 856.6	136.2	586.4	81	94
INDUSTRY 2231, BROADWOVEN FABRIC MILLS, WOOL															
1987 Census	108	120	75	15.0	243.9	13.0	26.3	189.2	507.1	593.5	1 086.7	39.8	205.9	90	86
1986 ASM	(NA)	(NA)	(NA)	12.3	194.8	10.6	21.6	149.2	371.6	432.5	815.0	24.2	153.1	(NA)	(NA)
1985 ASM	(NA)	(NA)	(NA)	13.1	203.8	11.2	22.8	154.8	461.5	475.8	932.5	33.9	171.3	(NA)	(NA)
1984 ASM	(NA)	(NA)	(NA)	13.7	211.2	11.9	25.0	162.1	461.5	564.3	1 015.7	33.4	170.1	(NA)	(NA)
1983 ASM	(NA)	(NA)	(NA)	13.6	197.8	11.8	24.8	153.3	402.7	477.2	879.3	20.4	162.9	(NA)	(NA)
1982 Census	115	131	71	13.1	175.8	11.3	22.8	136.5	349.4	394.2	762.8	27.7	150.6	88	75
1981 ASM	(NA)	(NA)	(NA)	14.4	189.7	12.3	24.8	141.6	437.9	429.1	844.2	18.2	180.9	(NA)	(NA)
1980 ASM	(NA)	(NA)	(NA)	14.5	172.6	12.4	24.3	130.2	369.2	337.7	698.5	22.5	156.3	(NA)	(NA)
1979 ASM	(NA)	(NA)	(NA)	15.4	166.9	13.2	27.0	127.1	344.9	330.0	662.6	21.8	135.6	(NA)	(NA)
1978 ASM	(NA)	(NA)	(NA)	15.4	156.2	13.0	26.9	116.6	317.8	317.5	626.1	17.4	117.6	(NA)	(NA)
1977 Census	154	165	84	14.6	136.6	12.6	25.9	105.8	312.9	283.7	583.3	14.9	111.0	83	80
1976 ASM	(NA)	(NA)	(NA)	15.5	133.6	13.1	26.9	98.5	264.6	313.9	571.6	41.7	94.2	(NA)	(NA)
1975 ASM	(NA)	(NA)	(NA)	14.3	112.1	11.6	22.2	82.1	198.1	251.3	454.1	*10.9	85.2	(NA)	(NA)
1974 ASM	(NA)	(NA)	(NA)	17.3	130.4	14.5	29.1	98.4	246.1	292.9	530.6	*16.9	108.8	(NA)	(NA)
1973 ASM	(NA)	(NA)	(NA)	18.4	133.5	15.7	32.5	99.8	248.6	244.2	484.7	10.1	102.6	(NA)	(NA)
1972 Census	178	198	119	19.4	132.1	16.5	34.7	99.0	239.4	217.1	450.1	11.6	90.7	84	83
INDUSTRY 2241, NARROW FABRIC MILLS															
1987 Census	249	276	169	19.0	304.4	16.1	32.3	216.3	609.9	572.5	1 179.7	33.8	186.6	94	94
1986 ASM	(NA)	(NA)	(NA)	17.2	259.7	14.7	27.5	182.4	594.5	452.6	1 040.0	32.4	171.9	(NA)	(NA)
1985 ASM	(NA)	(NA)	(NA)	16.9	242.3	14.4	27.2	173.5	550.0	415.3	962.3	28.9	157.4	(NA)	(NA)
1984 ASM	(NA)	(NA)	(NA)	18.1	240.1	15.6	29.6	176.6	555.2	409.6	954.6	55.9	148.8	(NA)	(NA)
1983 ASM	(NA)	(NA)	(NA)	16.9	227.3	14.5	28.6	170.1	509.0	414.8	918.9	18.8	158.2	(NA)	(NA)
1982 Census	241	281	161	17.5	215.5	15.2	28.5	158.9	464.7	388.3	851.8	22.3	137.2	95	97
1981 ASM	(NA)	(NA)	(NA)	21.1	245.2	18.1	35.4	181.3	478.4	481.2	941.5	*25.9	155.0	(NA)	(NA)
1980 ASM	(NA)	(NA)	(NA)	20.7	224.5	17.8	34.6	165.4	426.1	398.8	824.7	*22.0	129.9	(NA)	(NA)
1979 ASM	(NA)	(NA)	(NA)	21.3	209.2	18.7	36.6	162.3	397.3	390.2	787.4	*29.9	127.3	(NA)	(NA)
1978 ASM	(NA)	(NA)	(NA)	20.4	191.8	17.8	35.6	147.3	360.4	345.1	701.4	25.5	108.0	(NA)	(NA)
1977 Census	291	335	182	20.8	171.6	18.1	35.7	130.9	350.8	333.9	682.9	16.2	109.3	96	97
1976 ASM	(NA)	(NA)	(NA)	20.1	158.7	17.2	34.0	119.9	322.3	332.5	646.6	11.3	109.7	(NA)	(NA)
1975 ASM	(NA)	(NA)	(NA)	19.2	140.2	16.0	31.1	102.1	259.0	272.2	540.4	12.1	100.3	(NA)	(NA)
1974 ASM	(NA)	(NA)	(NA)	23.9	159.9	20.6	39.9	120.5	331.6	314.1	606.9	16.4	113.2	(NA)	(NA)
1973 ASM	(NA)	(NA)	(NA)	26.8	165.0	23.2	46.3	126.9	308.9	299.0	609.0	24.3	106.4	(NA)	(NA)
1972 Census	323	376	215	27.1	162.3	23.5	47.3	120.9	289.0	276.8	566.2	11.2	94.6	93	97
INDUSTRY 2273, CARPETS AND RUGS[8]															
1987 Census	412	467	243	53.2	988.4	40.6	85.2	657.1	3 180.7	6 904.9	10 001.5	226.4	1 295.0	97	99
1986 ASM	(NA)	(NA)	(NA)	49.8	856.9	37.2	79.6	587.0	2 382.8	6 064.9	8 432.7	134.8	1 088.3	(NA)	(NA)
1985 ASM	(NA)	(NA)	(NA)	46.2	789.3	36.5	75.3	536.8	2 195.1	5 640.4	7 868.4	153.4	1 039.0	(NA)	(NA)
1984 ASM	(NA)	(NA)	(NA)	46.2	749.2	36.8	76.6	520.5	2 257.3	5 624.9	7 804.7	167.0	1 068.6	(NA)	(NA)
1983 ASM	(NA)	(NA)	(NA)	42.7	672.1	33.9	69.6	455.7	2 144.6	4 862.9	6 879.7	83.8	968.4	(NA)	(NA)
1982 Census	(NA)	505	243	41.8	603.1	32.9	65.0	396.4	1 711.7	4 089.2	5 807.8	83.9	799.1	(NA)	(NA)
1981 ASM	(NA)	(NA)	(NA)	47.4	642.9	37.1	74.4	423.3	1 693.1	4 245.3	5 909.2	119.3	844.9	(NA)	(NA)
1980 ASM	(NA)	(NA)	(NA)	51.6	640.4	40.4	81.1	425.4	1 604.7	4 109.9	5 764.0	109.6	789.7	(NA)	(NA)
1979 ASM	(NA)	(NA)	(NA)	56.2	661.4	44.6	92.8	452.0	1 744.6	4 230.8	5 940.8	116.3	843.7	(NA)	(NA)
1978 ASM	(NA)	(NA)	(NA)	56.3	612.1	44.8	94.6	421.0	1 602.0	3 631.1	5 174.7	107.0	814.9	(NA)	(NA)

See footnotes at end of table.

Table 1. **Historical Statistics for the Industry: 1987 and Earlier Years**—Con.

[Excludes data for auxiliaries. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix.]

Year[1]	Companies[2] (no.)	All establishments[3]		All employees		Production workers			Value added by manufacture[4] (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories[4] (million dollars)	Ratios	
		Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						Specialization (percent)	Coverage (percent)
	INDUSTRY 2273, CARPETS AND RUGS[5]—Con.														
1977 Census	(NA)	592	285	55.8	556.6	44.3	91.4	379.7	1 530.1	3 280.0	4 774.6	82.4	753.6	(NA)	(NA)
1976 ASM	(NA)	(NA)	(NA)	49.2	455.6	39.7	79.8	310.6	1 210.5	2 625.0	3 794.9	60.3	626.8	(NA)	(NA)
1975 ASM	(NA)	(NA)	(NA)	48.6	416.3	38.5	76.0	276.4	1 039.8	2 184.7	3 240.0	52.6	601.3	(NA)	(NA)
1974 ASM	(NA)	(NA)	(NA)	57.0	450.9	45.6	90.8	306.2	1 140.8	2 299.4	3 458.6	104.7	650.1	(NA)	(NA)
1973 ASM	(NA)	(NA)	(NA)	60.7	463.0	51.1	107.8	322.9	1 284.5	2 385.7	3 698.3	90.6	683.3	(NA)	(NA)
1972 Census	(NA)	528	280	59.8	415.2	48.4	99.6	294.0	1 076.0	2 111.0	3 145.4	74.6	560.8	(NA)	(NA)

Note: Establishments of single unit companies with up to 20 employees (cutoff varied by industry) were excluded from the mail portion of the census. Data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were estimated based on administrative-record information from other agencies in conjunction with industry averages. These establishments accounted for the following percent of total value of shipments: SIC 2211, 3%; SIC 2221, 4%; SIC 2231, 10%; SIC 2241, 8%; SIC 2273, 5%.

[1]In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1972, see 1972 Census of Manufactures, vol. II, table 1a of the Industry chapter.

[2]For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

[3]Includes establishments with payroll at any time during year.

[4]Beginning with the 1982 Census of Manufactures, all respondents were requested to report their inventories at (the lower of) cost or market prior to adjustment to LIFO cost. This is a change from prior Censuses and annual surveys of manufactures in which respondents were permitted to value their inventories using any generally accepted accounting method. Consequently, inventories and value added by manufacture are not comparable to prior-year data.

[5]Figure includes shipments of cotton woven fabric finished from purchased fabric (primary products of industry 2261) and shipments of household furnishings made from purchased fabric (primary products of industry 2392), as well as shipments of cotton woven fabric and household furnishings woven and finished in the same establishment.

[6]Figure includes shipments of manmade woven fabric finished from purchased fabric (primary products of industry 2262), and shipments of household furnishings made from purchased fabric (primary product of industry 2392), as well as shipments of manmade woven fabric and household furnishings woven and finished in the same establishment.

[7]Data either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data; thus, these estimates may be of limited reliability.

[8]Estimates for new capital expenditures have associated standard error of 15 percent or more and may be of limited reliability. Estimates for other data items are of acceptable reliability.

[9]Industry was newly defined for 1987. It is composed of 1982 industries 2271, 2272, and 2279.

Table 2. Product and Product Classes—Quantity and Value of Shipments by All Producers: Part A. Industries 2211, 2221, and 2231

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers Shipments in appendix. For meaning of abbreviations and symbols, see introductory text]

1987 product code	Product	1987						
		Number of companies with shipments of $100,000 or more	Quantity of production for all purposes	Total shipments, including interplant transfers[1]		Transfers to other establishments in the same company		Quantity produced and consumed in the same establishment
				Quantity[2]	Value (million dollars)	Quantity[2]	Value (million dollars)	
2211- ---	**BROADWOVEN FABRIC MILLS, COTTON**							
	Total	**(NA)**	**(X)**	**(X)**	**5 407.5**	**(X)**	**(X)**	**(X)**
2211B ---	Plain weave fabrics, except pile (gray goods):							
2211B 00	Plain weave fabrics, except pile (includes single and plied warp duck, but excludes taped warp duck) (gray goods) ---- mil sq yd	67	2 853.0	2 488.6	2 004.6	1 171.7	761.0	333.3
2211C ---	Twill weave fabrics, except pile (gray goods):							
2211C 00	Twill weave fabrics, except pile (gray goods) ---- mil sq yd	27	706.6	638.3	810.3	145.9	138.9	40.1
2211D ---	All other weaves, except pile (includes taped warp duck) (gray goods):							
2211D 00	All other weaves, except pile (includes taped warp duck) (gray goods) ---- mil sq yd	31	279.0	182.1	219.5	85.2	104.6	89.8
2211E ---	Pile fabrics (gray goods):							
2211E 00	Pile fabrics (gray goods) ---- mil sq yd	14	465.3	338.1	375.2	280.4	296.3	(D)
2211F ---	Finished cotton broadwoven fabrics (finished in weaving mills) (see also code 22617):[3]							
2211F 00	Finished cotton broadwoven fabrics ---- mil fin lin yd	30	638.5	427.1	672.0	(X)	(X)	208.9
2211G ---	Cotton towels and washcloths (made in weaving mills)[4] ----	(NA)	(X)	(X)	788.2	(X)	(X)	(X)
2211G 10	Terry towels and washcloths, including pile (see also code 2392310) (for additional detail, see Current Industrial Report MQ-23X, Sheets, Pillowcases, and Towels) ----	7	(X)	(X)	763.6	(X)	(X)	(X)
2211G 30	Huck and crash towels (see also code 2392313) (for additional detail, see Current Industrial Report MQ-23X, Sheets, Pillowcases, and Towels) ----	2	(X)	(X)	(D)	(X)	(X)	(X)
2211G 00	Cotton towels and washcloths, n.s.k. ----	(NA)	(X)	(X)	(D)	(X)	(X)	(X)
2211H ---	Fabricated cotton textile products (made in weaving mills)[4] ----	(NA)	(X)	(X)	378.1	(X)	(X)	(X)
2211H 25	Sheets and pillowcases (see also code 2392200) (for additional detail, see Current Industrial Report MQ-23X, Sheets, Pillowcases, and Towels) ----	8	(X)	(X)	201.7	(X)	(X)	(X)
2211H 37	Diapers, woven or knitted ---- mil doz	1	(X)	(D)	(D)	(X)	(X)	(X)
	Tailored bedspreads (made in weaving mills):							
2211H 42	Quilted (see also code 2392114) ---- million	3	(X)	(D)	(D)	(X)	(X)	(X)
2211H 43	Nonquilted (see also code 2392120) ---- do	2	(X)	(D)	(D)	(X)	(X)	(X)
2211H 44	Tufted bedspreads, nontailored (see also code 2392122) ---- do	-	(X)	-	-	(X)	(X)	(X)
2211H 46	Other bedspreads, nontailored (including jacquard, etc.) except tufted (see also code 2392130) ---- do	2	(X)	(D	(D)	(X)	(X)	(X)
	Woven adult blankets:							
2211H 62	Conventional type (see also code 2392482) ---- mil doz	4	(X)	(D)	(D)	(X)	(X)	(X)
2211H 65	Sheet type (see also code 2392482) ---- do	3	(X)	7	20.8	(X)	(X)	(X)
2211H 67	Thermal (see also code 2392482) ---- do	4	(X)	(D)	(D)	(X)	(X)	(X)
2211H 69	Woven crib size blankets (see also code 2392493) ---- do	3	(X)	(D)	(D)	(X)	(X)	(X)
2211H 73	Comforters and quilts (see also code 2392412) ---- million	1	(X)	(D)	(D)	(X)	(X)	(X)
2211H 75	All other quilted products ---- do	4	(X)	9.6	13.1	(X)	(X)	(X)
2211H 00	Fabricated textile products, n.s.k. ----	(NA)	(X)	(X)	9.0	(X)	(X)	(X)
22110 ---	Broadwoven fabric mills, cotton, n.s.k. ----	(NA)	(X)	(X)	159.7	(X)	(X)	(X)
22110 00	Broadwoven fabric mills, cotton products, n.s.k., typically for establishments with 10 employees or more (see note) ----	(NA)	(X)	(X)	103.0	(X)	(X)	(X)
22110 02	Broadwoven fabric mills, cotton products, n.s.k., typically for establishments with less than 10 employees (see note) ----	(NA)	(X)	(X)	56.6	(X)	(X)	(X)

See footnotes at end of table.

1987 and 1982—Con.

of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see Value of

1982							1987 product code
Number of companies with shipments of $100,000 or more	Quantity of production for all purposes	Total shipments, including interplant transfers[1]		Transfers to other establishments in the same company		Quantity produced and consumed in the same establishment	
		Quantity[2]	Value (million dollars)	Quantity[2]	Value (million dollars)		
							2211- --
(NA)	**(X)**	**(X)**	**3 635.0**	**(X)**	**(X)**	**(X)**	
							2211B --
							2211B 00
						(NA)	
							2211C --
							2211C 00
						(NA)	
(NA)	(NA)	3 010.2	2 066.2	(NA)	(NA)		2211D --
							2211D 00
						(NA)	
							2211E --
							2211E 00
						(NA)	
							2211F --
(NA)	655.2	395.2	724.7	(X)	(X)	298.2	2211F 00
(NA)	(X)	(X)	508.1	(X)	(X)	(X)	2211G --
							2211G 10
						(NA)	
7	(X)	(X)	508.1	(X)	(X)		2211G 30
						(NA)	
						(X)	2211G 00
(NA)	(X)	(X)	99.8	(X)	(X)	(X)	2211H --
							2211H 25
2	(X)	(D)	(D)	(X)	(X)	(X)	
1	(X)	(D)	(D)	(X)	(X)	(X)	2211H 37
1	(X)	(D)	(D)	(X)	(X)	(X)	2211H 42
-	(X)	-	-	(X)	(X)	(X)	2211H 43
-	(X)	-	-	(X)	(X)	(X)	2211H 44
							2211H 46
2	(X)	(D)	(D)	(X)	(X)	(X)	
-	(X)	-	-	(X)	(X)	(X)	2211H 62
3	(X)	(D)	(D)	(X)	(X)	(X)	2211H 65
2	(X)	(D)	(D)	(X)	(X)	(X)	2211H 67
2	(X)	(D)	(D)	(X)	(X)	(X)	2211H 69
						(NA)	2211H 73
3	(X)	(D)	(D)	(X)	(X)	(X)	2211H 75
(NA)	(X)	(X)	-	(X)	(X)	(X)	2211H 00
(NA)	(X)	(X)	136.2	(X)	(X)	(X)	22110 --
							22110 00
(NA)	(X)	(X)	113.2	(X)	(X)	(X)	
							22110 02
(NA)	(X)	(X)	23.0	(X)	(X)	(X)	

Table 2. **Product and Product Classes—Quantity and Value of Shipments by All Producers:** Part A. **Industries 2211, 2221, and 2231**—Con.

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers Shipments in appendix. For meaning of abbreviations and symbols, see introductory text]

1987 product code	Product	1987						
		Number of companies with shipments of $100,000 or more	Quantity of production for all purposes	Total shipments, including interplant transfers[1]		Transfers to other establishments in the same company		Quantity produced and consumed in the same establishment
				Quantity[2]	Value (million dollars)	Quantity[2]	Value (million dollars)	
2221- —	**BROADWOVEN FABRIC MILLS, MANMADE FIBER AND SILK**							
	Total	**(NA)**	**(X)**	**(X)**	**7 777.9**	**(X)**	**(X)**	**(X)**
2221B —	85 percent or more filament rayon and/or acetate fabrics (gray goods):							
2221B 00	85 percent or more filament rayon and/or acetate fabrics, including blends chiefly rayon and/or acetate (gray goods) ..... mil sq yd	37	614.2	592.7	530.4	(D)	(D)	(D)
2221C —	85 percent or more filament fabrics, except rayon or acetate (gray goods):							
2221C 00	85 percent or more filament fabrics, except rayon and/or acetate (gray goods) ..... mil sq yd	52	2 236.2	2 118.8	1 455.0	629.1	971.5	108.9
2221D —	85 percent or more spun yarn fabrics, plain weave (except wool blends) (gray goods):							
2221D 00	85 percent or more spun yarn fabrics, plain weave (except wool blends) (gray goods) ..... mil sq yd	51	3 684.7	3 431.5	1 934.2	1 797.5	854.1	249.2
2221E —	85 percent or more spun yarn fabrics (except wool blends), twill weave (gray goods):							
2221E 00	85 percent or more spun yarn fabrics (except wool blends), twill weave (gray goods) ..... mil sq yd	22	291.2	276.3	240.2	(D)	(D)	(D)
2221F —	Other 85 percent or more spun yarn fabrics (except wool blends and pile) (gray goods):							
2221F 00	Other 85 percent or more spun yarn fabrics (except wool blends and pile) (gray goods) ..... mil sq yd	28	203.6	196.7	210.7	(D)	(D)	(D)
2221G —	Combinations of spun yarn and filament fabrics (except wool blends), except pile (gray goods):							
2221G 00	Combinations of spun yarn and filament fabrics (except wool blends), each less than 85 percent of the total fiber content, except pile (gray goods) ..... mil sq yd	42	1 355.9	1 253.1	928.9	440.4	304.4	(D)
2221H —	Other manmade fiber fabrics and silk fabrics	(NA)	(X)	(X)	670.8	(X)	(X)	(X)
2221H 10	Pile fabrics (gray goods) ..... mil sq yd	14	87.9	45.7	185.3	(D)	(D)	42.2
2221H 20	All other chiefly manmade fiber fabrics, including chiefly manmade fiber blends with wool, and silk fabrics, including blends (gray goods) ..... do	30	733.4	650.1	483.8	(D)	(D)	(D)
2221H 00	Other manmade fiber fabrics and silk fabrics, n.s.k.	-	(X)	(X)	1.7	(X)	(X)	(X)
2221J —	Finished manmade fiber and silk broadwoven fabrics (finished in weaving mills):[3]							
2221J 00	Finished manmade fiber and silk broadwoven fabrics (finished in weaving mills) (see also code 22628) ..... mil fin lin yd	34	536.1	496.4	933.6	(X)	(X)	(D)
2221K —	Manmade fibers and silk sheets and pillowcases (made in weaving mills):[4]							
2221K 00	Manmade fibers and silk sheets and pillowcases (made in weaving mills) (see also code 23922) (for additional detail, see Current Industrial Report MQ-23X, Sheets, Pillowcases, and Towels)	4	(X)	(X)	(D)	(X)	(X)	(X)
2221M —	Fabricated manmade fiber and silk textile products (made in weaving mills):[4]	(NA)	(X)	(X)	(D)	(X)	(X)	(X)
	Tailored bedspreads made in weaving mills:							
2221M 21	Quilted (see also code 2392116) ..... million	2	(X)	(D)	(D)	(X)	(X)	(X)
2221M 23	Nonquilted (see also code 2392121) ..... do	1	(X)	(D)	(D)	(X)	(X)	(X)
2221M 25	Tufted bedspreads, nontailored (see also code 2392124) ..... do	-	(X)	-	-	(X)	(X)	(X)
2221M 27	Other bedspreads, nontailored (see also code 2392131) ..... do	2	(X)	(D)	(D)	(X)	(X)	(X)
2221M 33	Towels and washcloths (see also code 2392313)	-	(X)	(X)	-	(X)	(X)	(X)
	Woven adult blankets:							
2221M 41	Conventional type (see also code 2392491) ..... mil doz	5	(X)	(D)	(D)	(X)	(X)	(X)
2221M 42	Sheet type (see also code 2392491) ..... do	1	(X)	(D)	(D)	(X)	(X)	(X)
2221M 43	Thermal (see also code 2392491) ..... do	3	(X)	(S)	7.3	(X)	(X)	(X)
2221M 47	Woven crib size blankets (see also code 2392495) ..... do	2	(X)	(D)	(D)	(X)	(X)	(X)
2221M 71	Comforters and quilts (see also code 2392414) ..... million	1	(X)	(D)	(D)	(X)	(X)	(X)
2221M 77	All other quilted products ..... do	1	(X)	(D)	(D)	(X)	(X)	(X)
2221M 00	Fabricated manmade fiber and silk textile products, n.s.k.	(NA)	(X)	(X)	(D)	(X)	(X)	(X)
22210 —	Broadwoven fabric mills, manmade fiber and silk products, n.s.k.	(NA)	(X)	(X)	429.0	(X)	(X)	(X)
22210 00	Broadwoven fabric mills, manmade fiber and silk products, n.s.k.; typically for establishments with 10 employees or more (see note)	(NA)	(X)	(X)	346.0	(X)	(X)	(X)
22210 02	Broadwoven fabric mills, manmade fiber and silk products, n.s.k.; typically for establishments with less than 10 employees (see note)	(NA)	(X)	(X)	83.0	(X)	(X)	(X)

See footnotes at end of table.

of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see Value of

1982							1987 product code
Number of companies with shipments of $100,000 or more	Quantity of production for all purposes	Total shipments, including interplant transfers[1]		Transfers to other establishments in the same company		Quantity produced and consumed in the same establishment	
		Quantity[2]	Value (million dollars)	Quantity[2]	Value (million dollars)		
							2221- —
(NA)	**(X)**	**(X)**	**7 820.3**	**(X)**	**(X)**	**(X)**	
							2221B --
							2221B 00
						(NA)	
							2221C --
							2221C 00
						(NA)	
							2221D --
							2221D 00
						(NA)	
							2221E --
							2221E 00
(NA)	(NA)	(NA)	5 820.3	(NA)	(NA)	(NA)	
							2221F --
							2221F 00
						(NA)	
							2221G --
							2221G 00
						(NA)	
						(NA)	2221H --
							2221H 10
						(NA)	
							2221H 20
						(NA)	
						(NA)	2221H 00
							2221J --
							2221J 00
(NA)	843.8	664.9	1 109.8	(X)	(X)	230.3	
							2221K --
							2221K 00
(NA)	(X)	(X)	462.9	(X)	(X)	(X)	
							2221M --
(NA)	(X)	(X)	86.2	(X)	(X)	(X)	
1	(X)	(D)	(D)	(X)	(X)	(X)	2221M 21
-	(X)	-	-	(X)	(X)	(X)	2221M 23
2	(X)	(D)	(D)	(X)	(X)	(X)	2221M 25
3	(X)	(D)	(D)	(X)	(X)	(X)	2221M 27
-	(X)	-	-	(X)	(X)	(X)	2221M 33
4	(X)	1.6	30.1	(X)	(X)	(X)	2221M 41
-	(X)	-	-	(X)	(X)	(X)	2221M 42
1	(X)	(D)	(D)	(X)	(X)	(X)	2221M 43
6	(X)	(D)	(D)	(X)	(X)	(X)	2221M 47
3	(X)	(D)	(D)	(X)	(X)	(NA)	2221M 71
						(X)	2221M 77
(NA)	(X)	(X)	-	(X)	(X)	(X)	2221M 00
(NA)	(X)	(X)	341.2	(X)	(X)	(X)	22210 --
							22210 00
(NA)	(X)	(X)	314.4	(X)	(X)	(X)	
							22210 02
(NA)	(X)	(X)	26.8	(X)	(X)	(X)	

Table 2. **Product and Product Classes—Quantity and Value of Shipments by All Producers:** Part A. **Industries 2211, 2221, and 2231**—Con.

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers Shipments in appendix. For meaning of abbreviations and symbols, see introductory text]

1987 product code	Product	1987						
		Number of companies with shipments of $100,000 or more	Quantity of production for all purposes	Total shipments, including interplant transfers[1]		Transfers to other establishments in the same company		Quantity produced and consumed in the same establishment
				Quantity[2]	Value (million dollars)	Quantity[2]	Value (million dollars)	
2231- —	**BROADWOVEN FABRIC MILLS, WOOL**							
	Total	**(NA)**	**(X)**	**(X)**	**1 090.2**	**(X)**	**(X)**	**(X)**
22311 —	Finished wool yarns, tops, or raw stock, not combed or spun at same establishment:[5]							
22311 00	Finished wool yarns, tops, raw stock, etc., not combed or spun at the same establishment (see also code 2283310) mi lb	11	*32.6	*32.6	65.8	-	-	-
22312 —	Wool broadwoven fabrics (gray goods):							
22312 00	Wool broadwoven fabrics (gray goods) mil sq yd	26	161.7	113.4	371.2	(D)	(D)	47.2
22313 —	Finished broadwoven wool apparel fabrics:							
22313 00	Finished broadwoven wool apparel fabrics mil fin lin yd	16	*72.1	*70.8	517.9	(X)	(X)	(D)
22314 —	Finished broadwoven wool nonapparel fabrics and felts:							
22314 00	Finished broadwoven wool nonapparel fabrics and felts mil fin lin yd	11	*6.7	*6.5	64.2	(X)	(X)	(D)
22315 —	Receipts for commission finishing or sponging of wool fabrics	(NA)	(X)	(X)	20.9	(X)	(X)	(X)
22315 91	Shrinking, sponging, and mending of wool cloth owned by others	7	(X)	(X)	8.1	(X)	(X)	(X)
22315 92	Job or commission finishing of wool broadwoven fabrics owned by others (excluding shrinking, sponging, and mending) mil fin lin yd	3	(D)	(D)	(D)	(X)	(X)	(X)
22315 93	Finishing wool textiles, except broadwoven fabrics	6	(X)	(X)	10.0	(X)	(X)	(X)
22315 00	Receipts for commission finishing of wool textiles, n.s.k.	(NA)	(X)	(X)	(D)	(X)	(X)	(X)
22319 —	Wool or chiefly wool woven blankets (made in weaving mills)[4]	(NA)	(X)	(X)	14.0	(X)	(X)	(X)
	Woven adult blankets:							
22319 25	Conventional type (see also code 2392492) mil doz	4	(X)	(D)	(D)	(X)	(X)	(X)
22319 27	Sheet type (see also code 2392492) do	-	(X)	-	-	(X)	(X)	(X)
22319 29	Thermal (see also code 2392492) do	-	(X)	-	-	(X)	(X)	(X)
22319 31	Crib blankets (see also code 2392496) do	1	(X)	(D)	(D)	(X)	(X)	(X)
22319 00	Wool fabricated products, n.s.k.	3	(X)	(X)	2.2	(X)	(X)	(X)
22310 —	Wool broadwoven fabrics and blankets, n.s.k.	(NA)	(X)	(X)	36.2	(X)	(X)	(X)
22310 00	Wool broadwoven fabrics and blankets, n.s.k., typically for establishments with 10 employees or more (see note)	(NA)	(X)	(X)	21.8	(X)	(X)	(X)
22310 02	Wool broadwoven fabrics and blankets, n.s.k., typically for establishments with less than 10 employees (see note)	(NA)	(X)	(X)	13.6	(X)	(X)	(X)

of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see Value of

1982							1987 product code
Number of companies with shipments of $100,000 or more	Quantity of production for all purposes	Total shipments, including interplant transfers[1]		Transfers to other establishments in the same company		Quantity produced and consumed in the same establishment	
		Quantity[2]	Value (million dollars)	Quantity[2]	Value (million dollars)		
							2231- --
(NA)	**(X)**	**(X)**	**834.0**	**(X)**	**(X)**	**(X)**	
							22311 —
8	(X)	(D)	(D)	(X)	(X)	(X)	22311 00
							22312 —
17	122.6	42.6	137.8	30.8	101.8	83.7	22312 00
							22313 —
24	73.6	72.7	501.4	(X)	(X)	(D)	22313 00
							22314 —
12	(S)	(S)	68.7	(X)	(X)	(D)	22314 00
(NA)	(X)	(X)	(D)	(X)	(X)	(X)	22315 —
3	(X)	(X)	(D)	(X)	(X)	(X)	22315 91
							22315 92
2	(D)	(D)	(D)	(X)	(X)	(X)	
1	(X)	(X)	(D)	(X)	(X)	(X)	22315 93
(NA)	(X)	(X)	4	(X)	(X)	(X)	22315 00
(NA)	(X)	(X)	24.5	(X)	(X)	(X)	22319 —
						(NA)	22319 25
9	(X)	(D)	(D)	(X)	(X)	(NA)	22319 27
						(X)	22319 29
(NA)	(X)	(D)	(D)	(X)	(X)	(X)	22319 31
(NA)	(X)	(X)	9.4	(X)	(X)	(X)	22319 00
(NA)	(X)	(X)	44.3	(X)	(X)	(X)	22310 —
(NA)	(X)	(X)	37.8	(X)	(X)	(X)	22310 00
(NA)	(X)	(X)	6.5	(X)	(X)	(X)	22310 02

Table 2. **Product and Product Classes—Quantity and Value of Shipments by All Producers: 1987 and 1982**—Con.

Part B. **Industries 2241 and 2273**

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see Value of Shipments in appendix. For meaning of abbreviations and symbols, see introductory text]

1987 product code	Product	1987			1982		
		Number of companies with shipments of $100,000 or more	Product shipments[1]		Number of companies with shipments of $100,000 or more	Product shipments[1]	
			Quantity[2]	Value (million dollars)		Quantity[2]	Value (million dollars)
2241- --	**NARROW FABRICS MILLS**						
	Total	**(NA)**	**(X)**	**1 164.7**	**(NA)**	**(X)**	**826.1**
22411 --	Woven narrow fabrics	(NA)	(X)	759.0	(NA)	(X)	568.2
22411 01	Woven elastic narrow fabrics (for additional detail, see Current Industrial Report MA-22G, Narrow Fabrics)	47	(X)	288.8	39	(X)	170.4
22411 31	Woven nonelastic narrow fabrics (for additional detail, see Current Industrial Report MA-22G, Narrow Fabrics)	74	(X)	453.1	68	(X)	394.0
22411 00	Woven narrow fabrics, n.s.k.	(NA)	(X)	17.0	(NA)	(X)	3.8
22414 --	Braided narrow fabrics:						
22414 00	Braided narrow fabrics (for additional detail, see Current Industrial Report MA-22G, Narrow Fabrics)	36	(X)	122.3	53	(X)	135.7
22415 --	Covered rubber thread:						
22415 00	Covered rubber thread ---- mil lb	15	*31.5	183.2	(NA)	*24.2	86.8
22410 --	Narrow fabrics, n.s.k.	(NA)	(X)	100.3	(NA)	(X)	35.4
22410 00	Narrow fabrics, n.s.k., typically for establishments with 5 employees or more (see note)	(NA)	(X)	62.6	(NA)	(X)	23.1
22410 02	Narrow fabrics, n.s.k., typically for establishments with less than 5 employees (see note)	(NA)	(X)	37.7	(NA)	(X)	12.3
2273- --	**CARPETS AND RUGS**						
	Total	**(NA)**	**(X)**	**9 498.1**	**(NA)**	**(X)**	**5 592.4**
22731 --	Woven carpets and rugs:						
22731 00	Woven carpets and rugs (for additional detail, see Current Industrial Report MA-22Q, Carpets and Rugs) ---- mil sq yd	25	*18.1	272.8	32	15.2	217.8
22732 --	Tufted carpets and rugs	(NA)	(X)	8 617.7	(NA)	(X)	5 152.4
22732 20	Tufted only or tufted and finished in this plant (for additional detail, see Current Industrial Report MA-22Q, Carpets and Rugs) ---- mil sq yd	110	1 119.8	6 485.2	140	821.1	4 454.6
22732 40	Finished only in this plant ---- do	19	366.0	1 820.8	15	168.1	568.2
22732 00	Tufted carpets and rugs, n.s.k., typically for establishments with 5 employees or more (see note)	25	(X)	311.7	(NA)	(X)	129.6
22733 --	Carpets and rugs, n.e.c.:						
22733 00	Carpets, rugs, and mats, n.e.c., including knitted, braided, hooked, needle punched, woven paper yarn, coconut fiber, etc. (for additional detail, see Current Industrial Report MA-22Q, Carpets and Rugs) ---- mil sq yd	73	(S)	467.8	42	*40.0	148.7
22730 --	Carpets and rugs, n.e.c., n.s.k.	(NA)	(X)	139.8	(NA)	(X)	73.5
22730 00	Carpets and rugs, n.e.c., n.s.k., typically for establishments with 5 employees or more	(NA)	(X)	7	(NA)	(X)	-
22730 02	Carpets and rugs, n.e.c., n.s.k., typically for establishments with less than 5 employees	(NA)	(X)	139.2	(NA)	(X)	73.5

Note: In 1987 Census of Manufactures, data for establishments of small single unit companies with up to 20 employees were estimated from administrative-records data rather than data actually collected from respondents. Employment cutoffs used for administrative records for each industry and shipments figures are included in code ending with "002". In both 1987 and 1982 Censuses of Manufactures, products not completely identified on standard forms were coded in appropriate product class (five-digit) followed by "00" or to appropriate product group code (four-digit) followed by "000".

[1]Data reported by all producers, not just those with shipments of $100,000 or more.

[2]For some establishments, data have been estimated from central unit values which are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * 10 to 19 percent estimated; ** 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

[3]See also MC87-I-22C(P).

[4]See also MC87-I-23E(P).

[5]See also MC87-I-22D(P).

Table 3. Materials Consumed by Kind: 1987 and 1982

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see Cost of Materials in appendix. For meaning of abbreviations and symbols, see introductory text]

1987 material code	Material	1987		1982	
		Quantity[1]	Delivered cost (million dollars)	Quantity[1]	Delivered cost (million dollars)
	INDUSTRY 2211, BROADWOVEN FABRIC MILLS, COTTON				
	Materials, containers, and supplies	**(X)**	**2 493.3**	**(X)**	**1 967.3**
	Raw fibers:				
013101	Cotton, 1,000 bales	2 993.3	898.2	2 213.4	776.4
	Manmade fibers (staple and tow):				
282305	Rayon and acetate, mil lb	4.1	3.7	1.3	1.0
282425	Polyester, do	197.0	116.3	132.9	108.4
282413	Nylon, do	(D)	(D)	(D)	(D)
282428	Other, except glass, do	1.3	.9	10.5	5.1
	Filament yarns:				
282301	Rayon and acetate, mil lb	(D)	(D)	(D)	(D)
282423	Polyester, do	42.5	35.0	62.6	21.6
282411	Nylon, do	.3	.0	*1.6	3.0
282407	Other, except glass, do	5.2	4.0	1.5	1.8
322935	Glass filament yarn and roving, do	(D)	(D)	(3)	(3)
228101	Spun yarns, all fibers, do	336.7	406.4	187.1	282.1
010014	All other fibers (silk, jute, reused wool, waste, etc.), do	(D)	(D)	(D)	(D)
220211	Broadwoven fabrics (piece goods), mil lin yd	*292.0	377.1	**214.7	275.5
280031	Dyes, lakes, and toners	(X)	73.9	(X)	123.4
970099	All other materials, containers, and supplies	(X)	512.7	(X)	244.9
971000	Materials, containers, and supplies, n.s.k.[2]	(X)	24.4	(X)	116.8
	INDUSTRY 2221, BROADWOVEN FABRIC MILLS, MANMADE FIBER AND SILK				
	Materials, containers, and supplies	**(X)**	**4 077.1**	**(X)**	**4 138.6**
	Raw fibers:				
013101	Cotton, 1,000 bales	811.7	283.8	1 057.6	427.1
020001	Wool, mohair, and other animal fibers (scoured weight), mil lb	(D)	(D)	(D)	(D)
	Manmade fibers (staple and tow):				
282305	Rayon and acetate, mil lb	*96.7	72.1	125.4	101.5
282425	Polyester, do	466.3	319.6	722.9	569.9
282413	Nylon, do	6.0	9.4	25.9	41.4
282428	Other, except glass, do	(S)	21.2	55.3	43.6
	Filament yarns:				
282301	Rayon and acetate, mil lb	139.9	204.7	147.3	177.0
282423	Polyester, do	377.8	513.8	419.0	406.7
282411	Nylon, do	84.7	163.5	*134.7	210.3
282407	Other, except glass, do	*71.1	111.3	*106.2	84.2
322935	Glass filament yarn and roving, do	140.5	236.8	110.0	102.4
228101	Spun yarn, all fibers, do	*517.9	858.0	(S)	586.8
229963	Wool tops, do	(D)	(D)	(D)	(D)
010014	All other fibers (silk, jute, reused wool, waste, etc.), do	(S)	16.7	(S)	8.7
220211	Broadwoven fabrics (piece goods), mil lin yd	*238.2	342.9	**550.5	352.3
280031	Dyes, lakes, and toners	(X)	44.3	(X)	61.9
970099	All other materials, containers, and supplies	(X)	808.1	(X)	676.7
971000	Materials, containers, and supplies, n.s.k.[2]	(X)	41.4	(X)	281.9
	INDUSTRY 2231, BROADWOVEN FABRIC MILLS, WOOL				
	Materials, containers, and supplies	**(X)**	**529.9**	**(X)**	**312.6**
	Raw fibers:				
013101	Cotton, mil lb	(D)	(D)	(3)	(3)
020001	Wool, mohair, and other animal fibers (scoured weight), do	80.7	150.6	55.3	107.2
	Manmade fibers (staple and tow):				
282305	Rayon and acetate, mil lb	(D)	(D)	(D)	(D)
282425	Polyester, do	(D)	(D)	6.1	4.3
282413	Nylon, do	4.1	5.1	5.0	7.2
282428	Other, except glass, do	(D)	(D)	2.5	2.8
	Filament yarns:				
282423	Polyester, do	(D)	(D)	(D)	(D)
282411	Nylon, do	(D)	(D)	(D)	(D)
228101	Spun yarn, all fibers, do	*13.5	28.1	13.2	52.2
229963	Wool tops, do	52.0	150.1	12.2	40.5
010014	All other fibers (silk, jute, reused wool, waste, etc.), do	(D)	(D)	3.6	3.9
220211	Broadwoven fabrics (piece goods), mil lin yd	(D)	(D)	*6.9	8.7
280031	Dyes, lakes, and toners	(X)	20.6	(X)	19.3
970099	All other materials, containers, and supplies	(X)	86.6	(X)	336.4
971000	Materials, containers, and supplies, n.s.k.	(X)	7.3	(X)	25.0
	INDUSTRY 2241, NARROW FABRIC MILLS				
	(Material data were not collected for this industry.)				
	INDUSTRY 2273, CARPETS AND RUGS				
	Materials, containers, and supplies	**(X)**	**6 542.5**	**(X)**	**3 868.8**
	Yarns:				
	Spun:				
228301	Wool and chiefly wool, mil lb	**31.8	42.5	(X)	(X)
228141	Nylon, do	969.6	1 847.1	(X)	(X)
228143	Polyester, do	*130.1	174.6	(X)	(X)
228146	Polypropylene, do	18.8	19.4	(X)	(X)
228147	Other, do	61.7	107.6	(X)	(X)

See footnotes at end of table.

Table 3. **Materials Consumed by Kind: 1987 and 1982**—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see Cost of Materials in appendix. For meaning of abbreviations and symbols, see introductory text]

1987 material code	Material		1987		1982	
			Quantity[1]	Delivered cost (million dollars)	Quantity[1]	Delivered cost (million dollars)
	INDUSTRY 2273, CARPETS AND RUGS—Con.					
	Yarns—Con.					
	Filament:					
282411	Nylon	mil lb	634.5	1 275.5	(X)	(X)
282423	Polyester	do	(S)	14.0	(X)	(X)
282436	Polypropylene	do	**129.1	177.9	(X)	(X)
282409	Other	do	56.3	99.5	(X)	(X)
	Primary backing:					
	Manmade fiber fabrics:					
220301	Polypropylene	mil sq yd	**1 063.9	279.2	(X)	(X)
220303	Other manmade	do	(S)	59.7	(X)	(X)
220305	Other fabrics	do	(S)	4.7	(X)	(X)
	Secondary backing:					
229961	Jute	mil sq yd	**276.8	54.6	(X)	(X)
308602	Foam or high density rubber cushion backing	do	(S)	23.8	(X)	(X)
308603	Other cushion backings, including vinyl, polyurethane, etc.	do	(S)	72.1	(X)	(X)
220307	Woven and nonwoven manmade fiber fabrics	do	*431.4	109.2	(X)	(X)
220308	Other, including scrim, solid vinyl, etc.	do	(S)	30.9	(X)	(X)
280031	Dyes, lakes, and toners		(X)	160.2	(X)	(X)
970099	All other materials, containers, and supplies		(X)	1 861.4	(X)	(X)
971000	Materials, containers, and supplies, n.s.k.[2]		(X)	98.3	(X)	(X)

[1]For some establishments, data have been estimated from central unit values which are based on quantity-cost relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * 10 to 19 percent estimated; ** 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

[2]Total cost of materials of establishments that did not report detailed materials data, including establishments that were not mailed a form.

[3]For 1982, these materials were included with material code 970099.

APPENDIX
Scope and Coverage and Explanation of Terms

GENERAL

The 1987 Census of Manufactures is the 32nd census of manufacturing establishments conducted in the United States. For 1987, it was conducted as part of the economic censuses, which included the censuses of mineral industries, construction industries, retail and wholesale trades, service industries, selected transportation activities, and minority-owned and women-owned businesses, under authority of title 13 of the United States Code. Title 13 specifies that an economic census be conducted every 5 years to cover years ending in 2 and 7.

SCOPE AND COVERAGE

Establishment Basis of Reporting

The census of manufactures is conducted on an establishment basis. All manufacturing establishments with one paid employee or more at any time during the year are covered by the census of manufactures. Therefore, a company operating at more than one location is required to file a separate report for each location. This report excludes information for separately operated administrative offices, warehouses, garages, and other auxiliary units which service manufacturing establishments of the same company. Where these auxiliary operations are conducted at the same location as the manufacturing operation, they are usually included in the report for the operating manufacturing establishment.

Use of Administrative Records

From a universe of approximately 350,000 manufacturing establishments in the 1987 Census of Manufactures, approximately 150,000 small single-establishment companies were excused from filing reports. Selection of the small establishment nonmail cases was done on an industry-by-industry basis. A variable cutoff was used to determine those establishments for which administrative records were to be used in place of a census report. The cutoffs were selected so the administrative-record cases would account for approximately 3 percent or less of the value of shipments for the industry. These cutoffs were then adjusted so that all single-establishment companies with less than 5 employees were excluded from the mail canvass, while all establishments with more than 20 employees were included. Where establishments in the 5 to 20 employee size range were included in the mail canvass, an abbreviated census form was frequently used.

For these nonmail establishments, (and a small number of larger establishment whose reports were not received at the time the data were tabulated) data on employment, payroll, and receipts were obtained from administrative records of other government agencies rather than from census forms. The administrative-record information was then used in conjunction with industry averages to estimate the data for these establishments. The value of shipments and cost of materials were not distributed among specific products and materials but were included in the product and material "not specified by kind" (n.s.k.) categories.

EXPLANATION OF TERMS

Number of establishments and companies–A separate report was required for each manufacturing establishment (plant) with one employee or more. An establishment is defined as a single physical location where manufacturing is performed. A company, on the other hand, is defined as a business organization consisting of one establishment or more under common ownership or control.

All employees–Includes all full-time and part-time employees on the payrolls at any time during the year. Included are all persons on paid sick leave, paid holidays, and paid vacations. Officers of corporations are included as employees; proprietors and partners of unincorporated firms are excluded. The "all employees" number is the average number of production workers plus the number of other employees in mid-March. The number of production workers is the average of those for midmonth payroll periods of March, May, August, and November.

Production workers–Includes workers up through the working-supervisor level engaged in fabricating, processing, assembling, inspecting, receiving, packing, warehousing, shipping (but not delivering), maintenance, repair, janitorial, guard services, product development, auxiliary production for plant's own use (e.g., powerplant), recordkeeping, and other closely associated services. Truckdrivers delivering ready-mixed concrete are also included in production workers.

Other employees–Includes nonproduction personnel, including those engaged in the following activities: supervision above working-supervisor level, sales (including driver/salespersons), sales delivery (truckdrivers and helpers), advertising, credit collection, installation and

servicing of own product, clerical and routine office functions, executive, purchasing, finance, legal, personnel (including cafeteria, etc.), professional, and technical employees.

Payroll–Includes the gross earnings for the "employees" defined above, such as salaries, wages, commissions, dismissal pay, bonuses, vacation and sick leave pay, and compensation in kind, prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. Respondents were told that in reporting they could follow the definition of payrolls used for calculating the Federal withholding tax.

Production-worker hours–Covers hours worked or paid for at the plant, including actual overtime hours (not straight-time equivalent hours). It excludes hours paid for vacations, holidays, or sick leave when the employee was not at the plant.

Cost of materials–Refers to direct charges actually paid or payable for items consumed or put into production during the year, including freight charges and other direct charges incurred by the establishment in acquiring these materials. It includes the cost of materials or fuels consumed, regardless of whether they were purchased by the individual establishment from other companies, transferred to it from other establishments of the same company, or withdrawn from inventory during the year.

The important components of this cost item are (a) all raw materials, semifinished goods, parts, containers, scrap, and supplies put into production or used as operating supplies and for repair and maintenance during the year; (b) electric energy purchased; (c) fuels consumed for heat, power, or generating electricity; (d) work done by others on materials or parts furnished by manufacturing establishments (contract work); and (e) products bought and resold in the same condition.

Specific materials consumed (table 3)–In addition to the total cost of materials which every establishment was required to report, information was also collected for most manufacturing industries on the consumption of major materials used in manufacturing. These inquiries were restricted to those materials which were important parts of the cost of production in a particular industry and for which cost information was available from manufacturers' records. Establishments consuming less than a specified amount (usually $10,000) of a specific material were not requested to report consumption of that material separately. Also, the cost of materials for the small establishments for which administrative records were used was estimated as "not specified by kind" (n.s.k.).

Value of shipments and other receipts–Generally refers to received or receivable net selling values, f.o.b. plant (exclusive of freight and taxes), of all products shipped, both primary and secondary, as well as all miscellaneous receipts such as receipts for contract work performed for others, installation and repair receipts, sale of scrap, and sale of products bought and resold without further processing. Included are all items made by or for the establishment from materials owned by it whether sold, transferred to other plants of the same company, or shipped on consignment. The net selling value of products made in one plant on a contract basis from materials owned by another was reported by the plant providing the materials.

In a few industries, the value of production or value of work completed is used instead of value of shipments. These industries are identified in the introduction and are footnoted in table 1.

In the case of multiunit companies, the manufacturer was requested to report the value of products transferred to other establishments of the same company at full economic or commercial value, that is, including not only the direct costs of production but also a reasonable proportion of "all other costs" (including company overhead and profit).

Shipments or production of individual products (table 2)–In the 1987 census, detailed shipment information was collected for approximately 11,000 individual products. These products are identified by a seven-digit code and are grouped into approximately 1,500 classes of products, which in turn are primary to 459 four-digit industries. Data at the five-digit product-class level have been collected each year as part of the annual survey of manufactures. Information at the seven-digit level, collected for many industries in the current industrial reports program, is not included in this table.

Value added by manufacture–This measure of manufacturing activity is derived by subtracting the cost of materials, supplies, containers, fuel, purchased electricity, and contract work from the value of shipments for products manufactured plus receipts for services rendered. The result of this calculation is then adjusted by the addition of value added by merchandising operations (that is, the difference between the sales value and cost of merchandise sold without further manufacturing, processing, or assembly) plus the net change in finished goods and work-in-process inventories between the beginning and end of the year.

For those industries where value of production is collected instead of value of shipments (see footnote in table 1), value added is adjusted only for the change in work-in-process inventories between the beginning and end of the year. For those industries where value of work done is collected, the value added does not include an adjustment for the change in finished goods or work-in-process inventories.

Value added avoids the duplication in the figure for value of shipments which results from the use of products of some establishments as materials by others. Value

added is considered to be the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

Expenditures for new plant and equipment–Establishments in operation and any known plants under construction were asked to report their expenditures for (a) permanent additions and major alterations to manufacturing establishments and (b) new machinery and equipment used for replacement and additions to plant capacity if they are of the type for which depreciation accounts are ordinarily maintained.

These totals exclude expenditures for used plant and equipment, expenditures for land, and cost of maintenance and repairs charged as current operating expenses. Data for used plant and equipment will be published in the final industry bulletin.

End-of-year inventories–Comprised of (a) finished products; (b) work-in-process; and (c) materials, supplies, fuels, etc. Beginning in 1982, respondents were asked to report their inventories at (the lower of) cost or market prior to adjustment to LIFO cost. This is a change from prior years in which respondents were permitted to value their inventories using any generally accepted accounting method. Therefore, 1982 through 1987 data for inventories are not strictly comparable to prior-year data.

Specialization and coverage ratios–An establishment is classified in a particular industry if its shipments of primary products of the industry exceed in value its shipments of the products of any other single industry. An establishments' shipments include those products assigned to an industry (primary products), those considered primary to other industries (secondary products), and receipts for miscellaneous activities (merchandising, contract work, resales, etc.). The following ratios have been developed to measure the relationship of primary product shipments to the data on shipments for the industry shown in table 1 and data on product shipments shown in table 2.

Specialization ratio–Represents the ratio of primary product shipments to total product shipments (primary and secondary, excluding miscellaneous receipts) for the establishments classified in the industry.

Coverage ratio–Represents the ratio of primary products shipped by the establishments classified in the industry to the total shipments of such products that are shipped by all manufacturing establishments, wherever classified.

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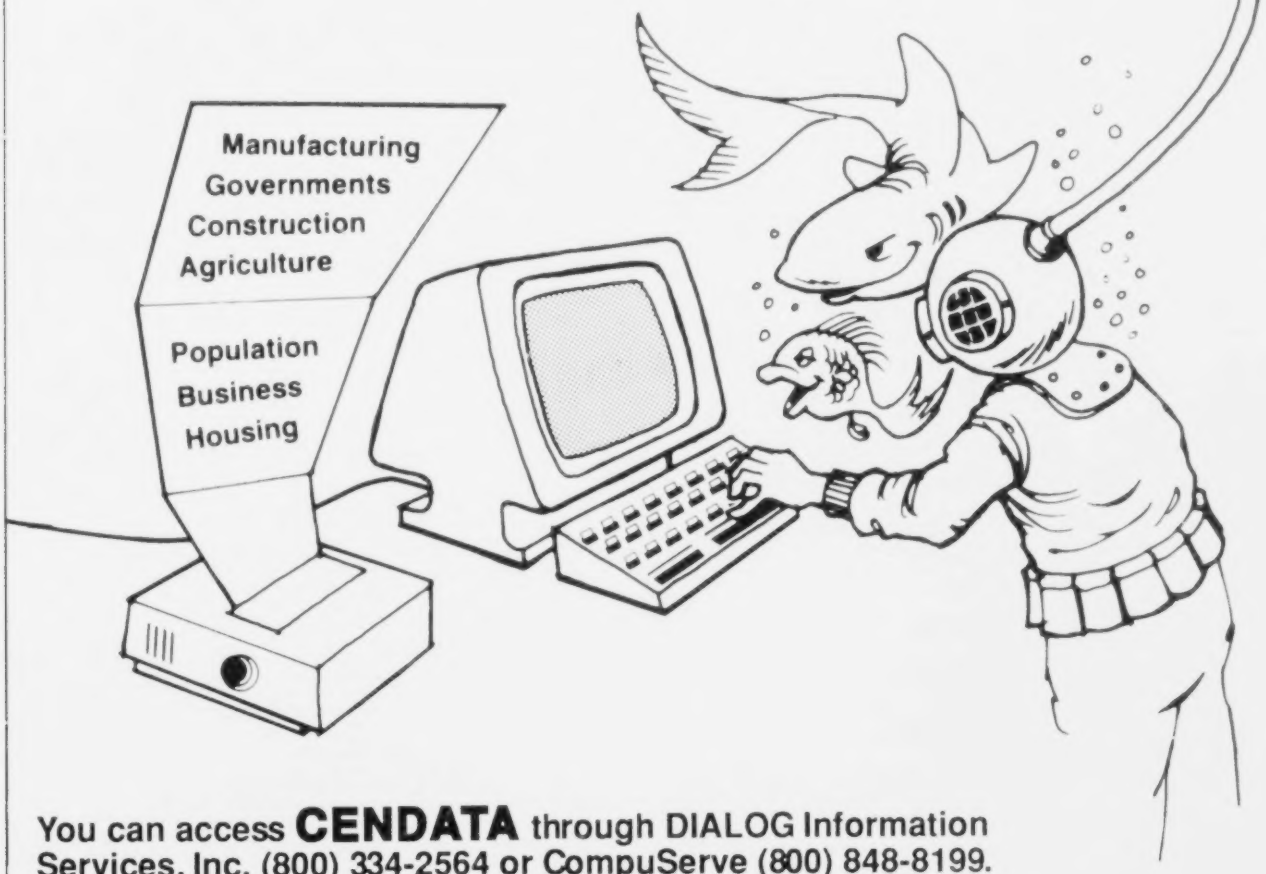

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